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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/730,942	•	12/10/2003	Kiyoshi Terauchi	018842.1285	6287
24735	7590	11/03/2005		EXAM	INER
BAKER B			LESLIE, MICHAEL S		
C/O INTEL THE WAR		AL PROPERTY DEP. JITE 1300	ART UNIT	PAPER NUMBER	
1299 PENN	SYĽVA	NIA AVE, NW	3745		
WASHING	TON, D	C 20004-2400	DATE MAILED: 11/03/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		So
	Application No.	Applicant(s)
	10/730,942	TERAUCHI ET AL.
Office Action Summary	Examiner	Art Unit
	Michael Leslie	3745
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNION (CFR 1.136(a). In no event, however, may a right) ion. period will apply and will expire SIX (6) MON or statute, cause the application to become AB	CATION. apply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
 1) Responsive to communication(s) filed on 2a) This action is FINAL. 2b) 3) Since this application is in condition for a closed in accordance with the practice un 	This action is non-final. llowance except for formal matt	·
Disposition of Claims		
4) ☐ Claim(s) <u>1-5</u> is/are pending in the applica 4a) Of the above claim(s) is/are wit 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-5</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction is	thdrawn from consideration.	
Application Papers		
9)☐ The specification is objected to by the Exa 10)☒ The drawing(s) filed on 10 December 200 Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the	3 is/are: a) 2 accepted or b) 2 to the drawing(s) be held in abeyar correction is required if the drawing.	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been sureau (PCT Rule 17.2(a)).	pplication No received in this National Stage
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) 🔲 Interview S	ummary (PTO-413)
 Notice of Draftsperson's Patent Drawing Review (PTO-943) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>9/05</u>.)/Mail Date`. formal Patent Application (PTO-152)

DETAILED ACTION

Applicant's arguments filed September 9, 2005 have been fully considered but they are not persuasive. Applicant's remarks clarifying the subject matter shown in Figs. 6 and 7 is appreciated and the objection is hereby withdrawn.

Applicant has generally argued that the claims, as amended, require "a cylindrical portion" opposite the "spherical portion" of the "sliding members", which is not disclosed in either Fujii et al (6467296) or Fukai et al (6398519). This statement is not agreed with. While not specifically described in the specification, a close inspection of Figs. 2 and 4 of Fujii et al and Fig. 1 of Fukai et al shows that the sliding members include a cylindrical portion opposite the spherical portions. Further, had the cylindrical portions not been shown, this feature, as shown in U.S. Patents 6168389 and 6371007, would be obvious to one of ordinary skill at least for preventing contamination of the operating fluid due to breakage of the thin edges, where the flat portion meets the spherical portion, due to grinding and wear.

Applicant further argues that the limitation "the contact surfaces are connected to each other through the side wall portion ..." is not disclosed in Fukai et al. This statement is not agreed with. While not specifically described in the specification, this feature is shown in Fig. 1 of Fukai et al. Further, it is noted that this limitation is considered broad, the limitations of claim 3 more precisely define the invention, and do not appear to be taught by Fukai et al.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1 and 3-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujii et al.

Fujii et al. disclose a swash-plate compressor for compressing a fluid, the compressor comprising a cylinder block (13) having a cylinder bore, a piston (26) having a first end portion reciprocally movable in the cylinder bore and a second end portion opposite to the first end portion, the second end portion having a pair of engaging portions faced to each other with a space left therebetween and a side wall portion connecting the engaging portions to each other, a swash plate (22) having a part inserted between the engaging portions and driven to rotate, and a pair of sliding members (23, 24) interposed between the engaging portions and the swash plate, respectively, each of the sliding members having a cylindrical portion (not numbered) with a flat surface slidably contacted with the swash plate and a spherical portion opposite to the cylindrical portion, each of the engaging portions having a contact surface (26a) slidably contacted with the spherical portion, each of the contact surfaces extending to the side wall portion. Wherein the contact surfaces are connected to each other through the side wall portion, the contact surfaces are continuously formed between the engaging portions through the side wall portion, the contact surface is formed along a spherical surface having a curvature equal to that of the spherical portion, and wherein a carbon dioxide refrigerant is used as the fluid.

Claims 1 and 2 are rejected under 35 U.S.C. 102(a) as being anticipated by Fukai et al.

Fukai et al disclose a swash-plate compressor for compressing a fluid, the compressor comprising a cylinder block (1) having a cylinder bore, a piston (3) having a first end portion reciprocally movable in the cylinder bore and a second end portion opposite to the first end

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portion, the second end portion having a pair of engaging portions faced to each other with a space left therebetween and a side wall portion connecting the engaging portions to each other, a swash plate (5) having a part inserted between the engaging portions and driven to rotate, and a pair of sliding members (6) interposed between the engaging portions and the swash plate, respectively, each of the sliding members having a cylindrical portion (not numbered) with a flat surface slidably contacted with the swash plate and a spherical portion opposite to the cylindrical portion, each of the engaging portions having a contact surface slidably contacted with the spherical portion, each of the contact surfaces extending to the side wall portion. Wherein the contact surfaces are connected to each other through the side wall portion, and wherein the contact surface is formed along a spherical surface having a curvature equal to that of the spherical portion.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, Application/Control Number: 10/730,942 Page 5

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael Leslie whose telephone number is (571) 272-4819. The

examiner can normally be reached on M-F 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward Look can be reached on (571) 272-4820. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ML

October 31, 2005

Michael Leslie Patent Examiner

AU 3745

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En Sooh

10/3/65